

Title (en)

SECURITY TONER AND PROCESS OF USING THEREOF

Title (de)

SICHERHEITSTONER UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)

TONER DE SÉCURITÉ ET SON PROCÉDÉ D'UTILISATION

Publication

EP 3518042 A1 20190731 (EN)

Application

EP 19152921 A 20190121

Priority

US 201815878962 A 20180124

Abstract (en)

The present disclosure relates to toner compositions containing an IR-taggant, and method of making thereof. The disclosure also relates to method for confirming authenticity of an item.

IPC 8 full level

G03G 9/09 (2006.01)

CPC (source: CN EP KR US)

B41M 3/14 (2013.01 - US); **B42D 25/36** (2014.10 - KR); **C09D 11/40** (2013.01 - US); **G03G 9/087** (2013.01 - KR); **G03G 9/08753** (2013.01 - US); **G03G 9/08755** (2013.01 - KR); **G03G 9/0902** (2013.01 - EP US); **G03G 9/0906** (2013.01 - EP US); **G03G 9/0908** (2013.01 - EP US); **G03G 9/091** (2013.01 - EP US); **G03G 9/0912** (2013.01 - EP US); **G03G 9/0914** (2013.01 - EP US); **G03G 9/0916** (2013.01 - EP US); **G03G 9/0918** (2013.01 - EP US); **G03G 9/092** (2013.01 - EP US); **G03G 9/0926** (2013.01 - EP US); **G03G 9/09328** (2013.01 - KR US); **G03G 9/0935** (2013.01 - CN KR); **G03G 9/09371** (2013.01 - CN); **G03G 9/09378** (2013.01 - KR); **G03G 9/09385** (2013.01 - KR); **G03G 9/09392** (2013.01 - US)

Citation (applicant)

- US 9382432 B1 20160705 - MCDANIEL HUNTER [US]
- US 2009045360 A1 20090219 - WOSNICK JORDAN H [CA], et al
- US 6593049 B1 20030715 - VEREGIN RICHARD P N [CA], et al
- US 6756176 B2 20040629 - STEGAMAT REZA [US], et al
- US 6830860 B2 20041214 - SACRIPANTE GUERINO G [CA], et al
- US 2006222991 A1 20061005 - SACRIPANTE GUERINO G [CA], et al
- US 6063827 A 20000516 - SACRIPANTE GUERINO G [CA], et al
- US 5290654 A 19940301 - SACRIPANTE GUERINO G [CA], et al
- US 5278020 A 19940111 - GRUSHKIN BERNARD [US], et al
- US 5308734 A 19940503 - SACRIPANTE GUERINO G [CA], et al
- US 5370963 A 19941206 - PATEL RAJ D [CA], et al
- US 5344738 A 19940906 - KMIECIK-LAWRYNOWICZ GRAZYNA E [CA], et al
- US 5403693 A 19950404 - PATEL RAJ D [CA], et al
- US 5418108 A 19950523 - KMIECIK-LAWRYNOWICZ GRAZYNA E [CA], et al
- US 5364729 A 19941115 - KMIECIK-LAWRYNOWICZ GRAZYNA E [CA], et al
- US 5346797 A 19940913 - KMIECIK-LAWRYNOWICZ GRAZYNA E [CA], et al
- US 5348832 A 19940920 - SACRIPANTE GUERINO G [CA], et al
- US 5405728 A 19950411 - HOPPER MICHAEL A [CA], et al
- US 5366841 A 19941122 - PATEL RAJ D [CA], et al
- US 5496676 A 19960305 - CROUCHER MELVIN D [CA], et al
- US 5527658 A 19960618 - HOPPER MICHAEL A [CA], et al
- US 5585215 A 19961217 - ONG BENG S [CA], et al
- US 5650255 A 19970722 - NG T HWEE [CA], et al
- US 5650256 A 19970722 - VEREGIN RICHARD P N [CA], et al
- US 5501935 A 19960326 - PATEL RAJ D [CA], et al
- "Optimizing the Synthesis of Red- to Near-IR-Emitting CdS-Capped CdTeSe_{1-x} Alloyed Quantum Dots for Biomedical Imaging", CHEM. MATER., vol. 18, no. 20, 2006, pages 4845 - 4854

Citation (search report)

- [XAY] US 2011086303 A1 20110414 - ZHOU KE [CA], et al
- [XA] US 2017248859 A1 20170831 - SACRIPANTE GUERINO G [CA], et al
- [XA] US 2011086302 A1 20110414 - ZHOU KE [CA], et al
- [XA] US 2012052433 A1 20120301 - CHEN ALLAN K [CA], et al
- [Y] US 5385803 A 19950131 - DUFF JAMES M [CA], et al

Cited by

EP3633459A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

DOCDB simple family (publication)

EP 3518042 A1 20190731; **EP 3518042 B1 20230524**; CA 3030896 A1 20190724; CA 3030896 C 20221004; CN 110068992 A 20190730; KR 102424083 B1 20220725; KR 20190090336 A 20190801; MX 2019000747 A 20190725; RU 2019100501 A 20200713; RU 2019100501 A3 20220224; US 10642179 B2 20200505; US 2019227452 A1 20190725

DOCDB simple family (application)

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MX 2019000747 A 20190117; RU 2019100501 A 20190111; US 201815878962 A 20180124